IN THE CLAIMS:

Please delete claims 1-1/5 without prejudice or disclaimer.

Please add new claims 16-36 as follows:

which recognize an epitope of a bacterium of the species *T. equigenitalis*, and which do not exhibit a crossed reaction with an epitope or epitopes selected from the group consisting of epitopes of a bacterium of a different *Taylorella* species, and epitopes of a bacterium whose genus is different from *Taylorella*.

Monoclonal antibodies or their fragments, according to claim 16, which are capable of recognizing T. equigenitalis proteins selected from the group consisting of T. equigenitalis proteins of 150 kDa, 120 kDa, 52.7 kDa and 22 (LPS) kDa.

Monoclonal antibodies, which can be obtained from hybrids by a method comprising:

fusing non-secreting murine myeloma cells with spleen cells from mice immunized by means of an inactivated strain of the species *T. equigenitalis* or extract(s) of such a strain,

cloning and selecting according to the capacity of their culture supernatant to recognize an epitope or epitopes of a bacterium of the species *T. equigenitalis*, and to not exhibit a crossed reaction with an epitope or epitopes selected from the group consisting of

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opes of a bacterium of a different Taylorella species or epitopes of a bacterium whose genus is different from Taylorella,

> recovering the required monoclonal antibodies, and optionally purifying said monoclonal antibodies.

JØ. Immunogenic proteins, which are capable of interacting with monoclonal antibodies or their fragments according to claim 16.

2/ 20. Monoclonal anti-antibodies, and their Fv, Fab, and F(ab')2 fragments, which are capable of interacting with the monoclonal antibodies or their fragments according to claim 16.

A method of obtaining monoclonal antibodies according to claim 16, comprising:

fusing non-secreting murine myeloma cells with spleen cells from mice immunized by means of a strain of the species T. equigenitalis or extract(s) from such a strain,

screening hybridomas whose culture supernatants exhibit a positive reaction with a bacterium of the species T. equigenitalis or a fragment thereof,

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selecting by cloning the hybridomas with respect to their reactivity, in

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Supply

recovering the monoclonal antibodies, and optionally purifying said monoclonal antibodies.

comprising:

A method of obtaining monoclonal antibodies according to claim 20,

fusing non-secreting murine myeloma cells with spleen cells from mice immunized by means of monoclonal antibodies or their Fv, Fab, and F(ab')2 fragments,

which recognize an epitope of a bacterium of the species *T. equigenitalis*, and which do not exhibit a crossed reaction with an epitope or epitopes selected from the group consisting of

epitopes of a bacterium of a different Taylorella species, and epitopes of a bacterium whose

genus is different from Taylorella,

screening hybridomas whose culture supernatants exhibit a positive reaction with one of the said monoclonal antibodies or their fragments,

selecting by cloning the hybridomas, and recovering the required anti-antibodies.

24 23. Strains of hybridomas, which are capable of secreting the monoclonal antibodies according to claim 16.

25 24. Strains of hybridomas, which are capable of secreting the monoclonal antibodies according to claim 20.

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 $\int_{0}^{\infty} 25$. A method of identification of a bacterium of the species T. equigenitalis in a specimen or in a culture comprising:

bringing the specimen or the culture to be analyzed, which may contain T.

equigenitalis, into contact with an effective quantity of at least one monoclonal antibody or fragment thereof according to claim 16, under conditions permitting a reaction of the antigen-antibody type, and

detecting any product formed in a reaction of the antigen-antibody type.

26. A method of identification of a bacterium of the species T. equigenitalis in a specimen or in a culture comprising:

bringing the specimen or the culture to be analyzed which may contain T.

equigenitalis into contact, under conditions permitting a reaction of the antigen-antibody type, with an effective quantity of a compound selected from the group consisting of an immunogenic protein and a monoclonal anti-antibody or Fv, Fab, and F(ab')2 fragment thereof, wherein said protein and anti-antibody or fragment thereof are capable of interacting with monoclonal antibodies or their fragments according to claim 16, so as to detect the presence of antibodies directed against T. equigenitalis, and

detecting any product formed in a reaction of the antigene antibody type.

Method of diagnosis of an infection by K equigenitalis comprising:

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bringing one or more monoclonal antibodies according to claim 16 or their fragments, into contact with a biological sample, and

detecting the reaction of the antigen-antibody type which is produced when T. equigenitalis is present in the sample.

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29. The method according to claim 25, further comprising blocking the non antigen-antibody reactions.

 3° 29. Kits for application of a method of identification of a bacterium of the species T. equiperitalis in a specimen or in a culture, which include:

at least one compound selected from the group consisting of a monoclonal antibody or fragment according to claim 16, an immunogenic protein and a monoclonal anti-antibody or Fv, Fab, and F(ab')2 fragment thereof, wherein said protein and anti-antibody or fragment thereof are capable of interacting with said monoclonal antibody or fragment thereof,

reagents, for carrying out the intended immunologic reaction, optionally, reagents for blocking the non antigen-antibody reactions, and instructions for use.

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full (25)

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vehicle.

Vaccinal compositions comprising at least one compound selected from the group consisting of an immunogenic protein and a monoclonal anti-antibody or Fv, Fab, and F(ab')2 fragment thereof, wherein said protein and anti-antibody or fragment thereof are capable of interacting with monoclonal antibodies or their fragments according to claim 16, in combination with physiologically acceptable excipients, in a quantity sufficient for evoking an immune response.

Pharmaceutical compositions comprising at one least one monoclonal

antibody or fragment according to claim 16, in combination with a pharmaceutically inert

32. Kits according to claim 29, wherein said reagent for carrying out the intended immunologic reaction is selected from the group consisting of markers and buffers.

33. Kits according to claim 29, wherein reagents for blocking the non antigenicantibody reaction is included and said reagent is mouse serum.

reaction anti-T.

The method according to claim 28, wherein the non antigen-antibody reaction is blocked by saturation of the specimen obtained by means of a serum from which anti-T. equigenitatis antibodies have been removed.